

LRF700

Precision Long-Range Laser Range Finder Modules with Continuous High Repartition Rate Lasing Capability



LRF700

- **LRF712** - Based on single-pulse Er:Glass laser, for ranges of 75m to 12km
- **LRF725** - Based on single-pulse Er:Glass laser, for ranges of 75m to 25km
- **LRF725 PLUS** - Based on single-pulse Er:Glass laser, for ranges of 75m to 25km, at triple ranging repetition rate (3Hz)
- **LRF730 HR** (High Repetition) Unique 10 Hz repetition rate LRF based on single-pulse Er:Glass laser, for ranges of 75m to 30km

The LRF700 is an open-frame (single or dual section) or box module designed for OEM implementation as a long-range, single-pulse eye-safe laser range finder with an infra red target aiming laser (optional).

These modules are some of the only LRFs in the world of these dimensions that enable continuous lasing at repartition rates of 1 Hz, 3 Hz or 10 Hz.

The LRF700 complies with the most rigorous customer requirements according to MIL-STD 810F.

The LRF700 is designed for integration as part of a multi-sensor suite and/or UAV payloads.

Smartly designed for maximum packaging flexibility, the LRF700 is easily adapted to existing systems according to customer needs.

- Very short lasing time ideal for fire control and airborne applications.
- Easy multi-suite OEM integration.

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Outline Specification

	LRF712	LRF725	LRF725-PLUS	LRF730-HR
Laser type	Er:Glass	Er:Glass	Er:Glass	Er:Glass
Wavelength	1540nm	1540nm	1540nm	1540nm
Ranging Repetition Rate Measurement/sec Continuous	1 / sec (1Hz)	1 / sec (1Hz)	3 / sec (3Hz)	10 / sec (10Hz)
Range Accuracy	±3m (1σ)	±3m (1σ)	±3m (1σ)	±3m (1σ)
Extinction Factor (500m) Lambertian target with R=85%	>37dB	>42dB	>42dB	>44dB
Minimum Range	75m	75m	75m	75m
Maximum Range (Best Conditions)	12km	25km	25km	30km
Boresight between mechanical interface and laser	<0.3 mrad	<0.3 mrad	<0.3 mrad	<0.3 mrad
Power Source	18 - 33Vdc	18 - 33Vdc	18 - 33Vdc	18 - 33Vdc
Communication	RS232 or RS422	RS232 or RS422	RS232 or RS422	RS232 or RS422
Laser Safety	Fully eye-safe - CLASS 1, IAW IEC 60825-1:2001-2008			
Weight	-Open frame Module		<0.7kg	
	-Dual-Section Open Frame Module		<0.6kg	
	-Box		<1.2kg	
Environmental	Complies with MIL-STD-810F and MIL-STD-461D			
IR Pointer (Optional)				
-Output Power	15-120mW	15-120mW	15-120mW	15-120mW
-Boresight Pointer/LRF	<0.3 mrad	<0.3 mrad	<0.3 mrad	<0.3 mrad



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